

**Notice of Allowability**

Application No.

09/633,760

Examiner

Samir A. Ahmed

Applicant(s)

WEINSHALL ET AL.

Art Unit

2623

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/05/05.
2. ☒ The allowed claim(s) is/are 7-10, 17-26 (now renumbered 1-14 for issue).
3. ☒ The drawings filed on 8/07/00 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                       |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|   | 9. <input type="checkbox"/> Other _____.  |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for the following Examiner's amendment was given in a telephone interview with Robert M. McDermott (reg. # 41,508) on 8/11/05 and 8/15/05, acting as applicants representative, authorized the following amendment:

Please cancel claims 1-6, 11-12.

Please amend the claims as follows:

In claim 17, after "two optical" on line 2, please insert – detection --.

In claim 17, after "orthogonal" on line 8, please delete [image of].

In claim 17, after "based on" on line 8, please insert – an image of the screen acquired from a direction --.

In claim 17, after "orthogonal" on line 8, please insert – to --.

In claim 21, after "at least" at the beginning of line 2, please delete [one camera] and insert – two cameras --.

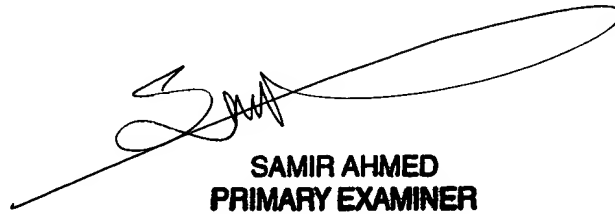
In claim 21, after "at least " at the end of line 2, please delete [one optical device] and insert –two optical devices--.

In claim 22, after "at least" on line 3, please delete [one camera] and insert – two cameras--.

In claim 23, after "at least" on line 2, please delete [one optical device] and insert  
– two optical detection devices --.

In claim 24, after "providing" on line 3, please delete [a substantially orthogonal]  
and insert – an --.

In claim 24, after "apertures," on line 4, please insert – acquired from a direction  
substantially orthogonal to the screen --.



**SAMIR AHMED  
PRIMARY EXAMINER**

### **REASONS FOR ALLOWANCE**

3. The following is an examiner's statement of reasons for allowance: the instant invention is directed to a method and apparatus for object based coding. The closest art Batterman et al. (US Patent 5,856,844) and Schick et al. (US Patent 6,175,647), disclose a strap-down 3D reconstruction system to support at least four reference markers, the markers are not in a visual field of each of the at least two cameras, because each camera is pointing in a different direction (see Batterman, col. 8, lines 54-58, Schick, Fig.2). The limitations "the jig also supporting at least four reference markers in a visual field of each of the at least two cameras" recited in claim 7, and "to determine a relative location of an object based on an image of the object in at least two fields of view and based on an image of the screen acquired from a direction substantially orthogonal to the screen", recited in claims 17 and 24, in combination with the other elements of the claims are not disclosed or suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

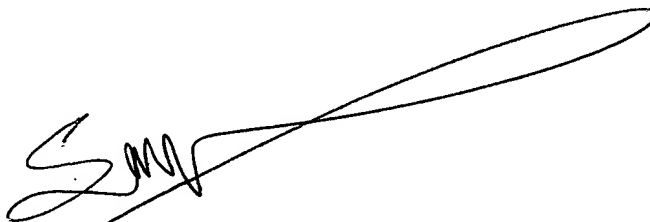
4. Claims 7-10, 17-26 (now renumbered 1-14 for issue) are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samir A. Ahmed whose telephone number is (571) 272-7413. The examiner can normally be reached on Mon-Fri 8:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (571) 272-7414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**SAMIR AHMED  
PRIMARY EXAMINER**